

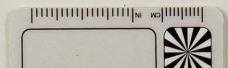
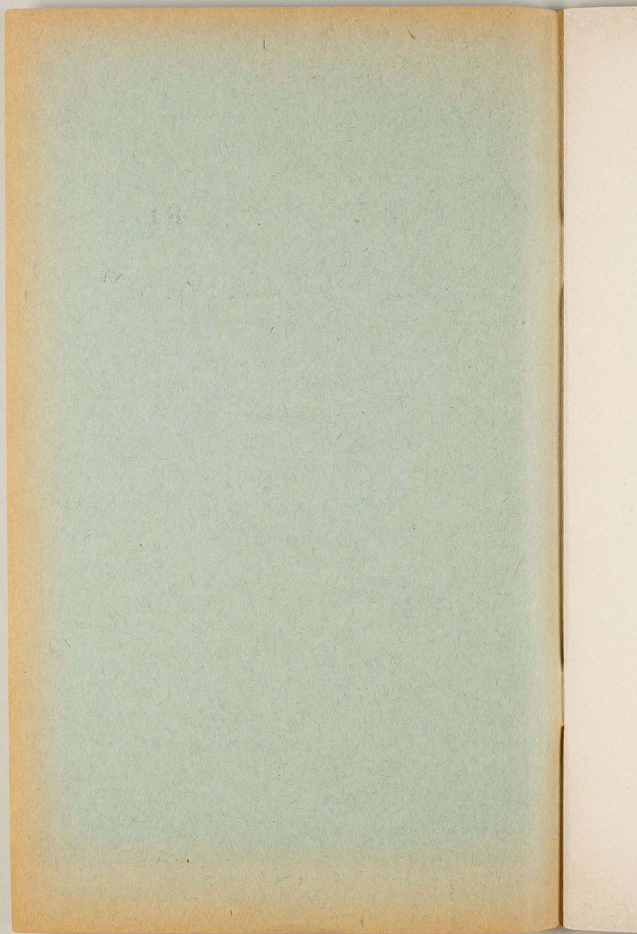
AIM Ann Report
1949 to 1950

ANNUAL REPORT
OF THE
AUCKLAND
INSTITUTE
AND MUSEUM
1949-50

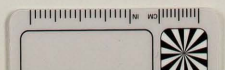


For presentation at the Annual
General Meeting to be held on
31st May, 1950.

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Blue Faience Tile and Bowl with bird motif pattern,
Persian 7th to 12th century. Presented by Mrs. E. M.
Rutherford and Mrs. Powell.

ANNUAL REPORT
OF THE
AUCKLAND INSTITUTE
AND MUSEUM

For 1949-50

For presentation at the Annual General
Meeting to be held on 31st May, 1950.



AUCKLAND
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Staff of the Museum.

Director	GILBERT ARCHIEY, O.B.E., M.A., D.S.C., F.R.S.N.Z.
Assistant Director	A. W. B. POWELL, F.R.S.N.Z.
Ethnologist	V. F. FISHER, M.A.
Hon. Numismatist	J. C. ENTRICAN.
Hon. Curator of English China ..	C. REGINALD FORD, F.R.I.B.A.
Botanist	R. C. COOPER, B.A., B.COM.
Ornithologist and Entomologist ..	E. G. TURBOTT, M.SC.
Associate Ornithologist	MAJOR G. A. BUDDLE, D.S.O.
Associate Ethnologist	OLWYN M. TURBOTT.
Geologist	M. H. BATTEY, M.SC.
Education Officer	R. A. SCOBIE, M.A.
Assistant Education Officer	MARJORIE L. HURREY.
Librarian	ENID A. EVANS, B.A., A.I.L.A.
Library Assistant	JOYCE BARTLEY.
Bookkeeper and Typist	ALIX MULLIONS.
Typist	PAULINE C. BOYD.
Taxidermist	C. W. DOVER.
Cabinetmaker and Joiner	FRANK QUAYLE.
Custodian	J. L. DAVY, D.C.M.

Attendants:

J. STEWART, S. BROWN, G. GRANT, W. KENNEDY,
P. R. PYE SMITH.

OFFICERS
OF THE
AUCKLAND INSTITUTE
AND
MUSEUM
1949-1950

President:

MR. F. L. G. WEST, LL.M.

Vice-Presidents:

SIR ALEXANDER JOHNSTONE, O.B.E., K.C., B.A., LL.B.

MR. J. C. RENNIE, LL.B.

HON. T. BLOODWORTH, M.L.C.

Council:

PROFESSOR L. H. BRIGGS,
D.SC., D.PHIL., F.R.S.N.Z.

MR. V. J. LARNER, M.B.E.
SIR FRANK MAPPIN, Bart.

DR. HOLBROOK A. CHATFIELD.

MR. A. N. COOPER.

MR. A. T. PYCROFT.

MR. J. C. ENTRICAN.

SIR CARRICK ROBERTSON,
F.R.C.S.

MR. W. A. FAIRCLOUGH,
M.B., CH.B.

PROFESSOR H. W. SEGAR, M.A.,
F.R.S.N.Z.

MR. C. REGINALD FORD, F.R.G.S.,
F.R.I.B.A.

MR. E. EARLE VAILE.

Representatives of the Auckland City Council:

HIS WORSHIP THE MAYOR, J. A. C. ALLUM, Esq., C.B.E.

MR. A. E. BROWNLIE.

MR. J. W. KEALY.

MR. R. S. HARROP, B.COM.

Representatives of Local Bodies:

MESSRS. E. HAY, T. R. HOLDSWORTH, A. W. JOUGHIN,
A. MURDOCH.

Trust Board:

MR. V. J. LARNER (Chairman). MR. KENNETH B. MYERS, M.B.E.

MR. E. ANDERSON.

MR. A. T. PYCROFT.

SIR CECIL LEYS.

Representatives on Council of Royal Society of New Zealand.

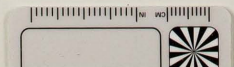
PROFESSOR L. H. BRIGGS,

MR. A. T. PYCROFT.

Director:

GILBERT ARCHY, O.B.E., M.A., D.SC., F.R.S.N.Z.

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Reports to Members

President

At the close of the year ending 31st March 1950, the membership of the Auckland Institute and Museum stands at 632 members, of whom 236 are life members.

At the last annual meeting Mr. Eruini Taipari was elected an Honorary Life Member of the Institute in acknowledgement of his services in connection with the historic whare rununga or meeting house, Hotunui, of the Ngati Maru people of Thames.

The Council has recorded with regret the deaths during the year of the following members: Mrs. E. M. Axford, Miss O. L. G. Adams, Professor J. A. Bartrum, Dr. Bruce Mackenzie, Dr. E. Robertson, and Messrs. E. T. Frost, E. Joy, Hallyburton Johnstone, Andrew M. Paterson, James Coe, J. Stuart Milne, E. W. Yates, H. F. Brookes, Arthur Brett, A. E. Ford, M. J. Bennett, J. G. B. Gifford, A. Harvey, T. U. Wells, C. C. Comyns, H. P. Dearsley, and G. M. White.

Dr. E. Robertson had been a member of the Institute for nearly sixty years, having been first elected in 1891. He held the office of President in 1897 and again in 1902, and was a member of the Council for many years. Mr. M. J. Bennett had been a member of the Council for several years as representative of the Auckland City Council. Professor J. A. Bartrum was a life member of the Institute and had been a frequent contributor of scientific papers and to the Institute's public lectures. His distinguished researches in geology had received recognition in a fellowship of the Royal Society of New Zealand and also in the award of The Hector Medal in 1939. Mr. Hallyburton Johnstone had been a generous donor of Maori and historical objects to the Museum. Miss O. L. G. Adams had served for many years on the anthropology section committee and was always an enthusiastic helper in the Cheeseman flower show and the school children's competitive exhibitions.

The year has been marked by the honours which have been conferred upon a number of its members, to whom the congratulations of the Institute have been sent by the Council. The honour

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of knighthood was conferred by His Majesty upon our vice-president, Sir Alexander Johnstone. Other recipients of honours bestowed by His Majesty were Mr. W. H. Cocker, C.M.G., Dr. G. H. Cunningham, C.B.E., and Dr. H. E. Annett, O.B.E. Dr. Cunningham was also elected to a fellowship of the Royal Society in recognition of his researches in botany and plant diseases. He was also awarded the Hector Medal for 1949. Mr. J. C. Entrican, a member of the Council was elected to a fellowship of the Royal Numismatic Society of New Zealand. Dr. G. Archey, who last year completed his 25th year as Director of the Museum, was chosen to deliver the Macmillan Brown lectures for 1949, his subject being "Art in Polynesia." Mr. E. G. Turbott was last year elected president of the Ornithological Society of New Zealand.

The following were among the matters of general interest dealt with by the Council and its standing or special committees during the year.

A committee waited upon the Auckland Transport Board to represent the need for this service, and had the support of Parent-Teacher Associations and the Education Board. It is pleased to note that the City Council, at the request of the Transport Board, has approved of the use of the roads in the Domain for an experimental period. It is hoped that the final decision of the Transport Board will enable a service to be inaugurated before the winter months.

Representations have continued to be made by the Scenery Preservation Committee to the Rangitoto Domain Board regarding the preservation of this island reserve. The Domain Board has recognised this need, and its special efforts during the year towards the eradication of exotic growths by the felling of a very large number of the exotic pines which were obtaining a strong hold on the island, and the marking out of areas of likely re-growth has been greatly appreciated.

At the invitation of the Local Government Commission the Council submitted a factual statement of the financial support accorded to the Museum by local bodies in the area under review by the Commission. It also submitted to the Commission representations regarding the residential occupation of the Rangitoto Island reserve. The Institute has continued to take its part in securing the reservation of other appropriate reserves, and Mr. A. T. Pycroft has been appointed a member of the Oraka Domain Board, and Mr. R. C. Coeper of the North Shore Scenic Board.

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The thanks of the Institute are accorded to His Worship the Mayor (Mr. J. A. C. Allum) for his assistance in securing a number of the war paintings of Captain Peter McIntyre for exhibition in the War Memorial Museum.

Arrangements have been made for the accommodation of the library of the Ornithological Society of New Zealand, whose books and publications will be available to members of the Institute.

Members welcomed the return visit of Mrs. S. Watson Smith (Miss Lucy Cranwell), who had given so many years of notable service as botanist to the museum. Mrs. Watson Smith kindly performed the opening of the special exhibition of art designs from native plants and animals held in the museum in July last.

The new accommodation for the school classes visiting the museum is now in use. Over 28,000 school children attended these classes during the year. The travelling exhibit cases have been continuously renewed and circulated among schools in the museum district. The Council has received letters of appreciation from many headmasters for the school services provided.

Miss Z. O. Lloyd, who has so successfully carried on the school work for nearly eight years as acting Education Officer during the absence of Mr. Scobie, relinquished her appointment during the year, and Mr. Scobie has resumed his position on his return to New Zealand after war service and attaining academic success at the University of London.

Many interesting and instructive articles have been donated to the Museum during the year for which grateful thanks are accorded to the donors.

The bequest of Miss M. A. N. Russell of seven acres of native bush at Titirangi as a reserve is cordially acknowledged. The bush is in excellent condition and will undoubtedly afford a valuable source of botanical study. The late Mr. A. G. Lunn, a former President of the Institute, has bequeathed a legacy of £25 and a selection of books from his library. The Auckland Electric-power Board has again donated £50 to the Museum funds. The bequest of the residue of his estate by the late Mr. A. V. Hanson has already resulted in the addition of £1970 to the funds, and the Council is now realising the remainder which is likely to produce a further £100.

No report would be complete without reference to the very great benefits which are accruing from the generous foundation provided by Mr. Edward Earle Vaile. Over £2,000 was expended

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from the income of this fund in the acquisition of important historical specimens, and books (including the library of Mr. Johannes C. Andersen) during the year.

The thanks of the Institute are also due to the Auckland University College Council for its co-operation with your Council in many directions, including the joint sponsorship of important lectures, and the use of the College rooms.

The issue during the year of Mr. C. Reginald Ford's "Handbook of the European Pottery and Porcelain Collections," a second edition of the Director's "South Sea Folk" and a third printing of the Assistant Director's "Native Animals of New Zealand," provide a series of well-produced handbooks for public purchase, and are meeting with a ready demand. The school leaflets are much sought after by teachers and pupils alike. Further titles in the leaflet series are under consideration.

The financial accounts for the year are issued with this report. The income from all sources remains consistent with that of the previous year, and an endeavour has been made to limit expenditure in certain desirable directions to meet enforced increases in other directions. Although a credit balance is shown in the income and expenditure account, the greater part of this has already been appropriated to the supply of new curtains and other equipment for the museum which was ordered during the year. With the general increase in scales of wages and in other costs, a careful watch is required to be kept on expenditure in all directions.

Your Council is represented on the War Memorial Appeal Committee, which has now approximately £100,000 in hand, and seeks a further £150,000 which with the Government subsidy will provide the required sum of £500,000. Many members of the Institute have already subscribed generously to the fund, and the Council is confident that those who have not already done so will wish to be among the most liberal contributors to this great objective.

F. L. G. WEST.

Chairman of the Trust Board

There has been little change in the invested funds during the year; £115/10/- has been received in life members' subscriptions, £65 in reduction of mortgages, and sundry endowment receipts were £13. National War Savings certificates for £200 were purchased. The invested funds now total £48,515, of which £40,538

is in Government Stock and War Savings Investments. The security margin of the mortgages continues to be improved by annual repayments. Maintenance of the buildings in the Edward Earle Vaile trust has been attended to, and properties and investments generally may both be regarded as in sound condition.

V. J. LARNER.

Director

Eight Monday evening lectures were given during the year, including three by visiting speakers, and we have pleasure in acknowledging the very interesting series members enjoyed:

Mr. Harold Mattingly, M.A., F.S.A.: "Everyday Life in Ancient Rome."

Colonel K. Howard: Film shown of the New Zealand-American Fiordland Expedition.

Mr. M. H. Battey, M.Sc.: "The Recent Eruption of Ngauruhoe."

Mr. C. N. Watson-Munro, O.B.E., M.Sc.: "Whither Atomic Power?"

Dr. E. J. Godley, M.Sc.: "Human Genetics."

Dr. R. P. Anschutz, M.A.: "Some Modern Political Theories."

Dr. Wilton E. Henley: "On Being Tired."

Dr. Olaus J. Murie: "Trailing the Alaska-Yukon Caribou."

Prior to Dr. Murie's lecture the Hector Medal awarded by the Royal Society of New Zealand was presented to Dr. G. H. Cunningham, C.B.E. Dr. R. A. Falla, President of the Royal Society, expressed his pleasure at exercising the privilege of making the presentation, and complimented Dr. Cunningham on the distinguished researches in botany that had so well earned the award of the medal.

In contrast to the good attendances at the public lectures the attendance at the ordinary meetings was poor, and not really an encouragement to those offering the results of their investigations for discussion by their colleagues. This is possibly one outcome of specialization, but is none the less regrettable.

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Papers were contributed by: Mr. John Morton, Mr. R. V. Mirams, Mr. E. G. Turbott, Mr. A. W. B. Powell, Professor Ph. H. Kuenan, Mr. R. C. Cooper, Mr. E. J. Searle, and Professor V. J. Chapman.

The Sunday afternoon lectures at the Museum were again well attended, and we acknowledge with thanks the interesting addresses given by:

Mr. Johannes C. Andersen: "Captain Cook in Dusky Bay."

Professor K. B. Cumberland: "New Zealand's Pacific Island Neighbourhood."

Dr. T. E. Woodward: "Insect Life Histories."

Mr. A. W. Smith: "The Southern Rocky Mountains: The Roof of the United States of America."

Miss J. Dingley: "Plant Immigrants."

Mr. R. B. Sibson: "Wanderings in Southern France."

Dr. W. Cottier: "Insect Invaders."

Mr. L. M. Lennard: "The History of the Waitakere Ranges."

Dr. Gilbert Archey: "Native Art in Oceania."

In the Anthropology Section, an important present-day topic, Trusteeship in the Pacific, was presented in an interesting panel discussion by the Rev. R. Godfrey, Dr. V. W. T. McGusty, and Professor W. T. G. Airey. This discussion and a meeting to hear Dr. W. Wallace Atwood, a prominent American geographer attending the Science Congress, were in conjunction with the Geographical Society. Local speakers who contributed to a stimulating and instructive syllabus were Mr. Johannes C. Andersen, Dr. Archey, Professor K. B. Cumberland, Mr. A. D. Mead, Professor S. Musgrove, and Dr. G. Blake Palmer. Dr. J. B. Liggins is Chairman again, and Miss A. J. Metge continues as Hon. Secretary.

The Auckland Astronomical Society has now increased its membership to one hundred. There were nine well-attended meetings with an average attendance of forty, the subjects including Meteors in Upper Atmosphere, The 3-inch Refractor and Graphical Methods in Astronomy. A film evening, contributions from the Junior Section, and an exhibition and social evening completed the programme. The lecturers were Messrs. R. A. McIntosh, L. N. H. Beaumont, and A. P. Mackerras.

Certain duties accruing from the Seventh Pacific Science Congress have been accepted by members of the staff. Mr. Powell has edited for publication in the Congress Proceedings the papers and abstracts for the Division of Oceanography; Mr. Turbott is doing the same service for the voluminous Zoology Division material; Mr. Fisher, Mr. Battey, and Mr. Cooper checked and put into order the papers submitted in the divisions of Anthropology, Geology, and Botany respectively.

The Pacific Science Council, which during the Congress decided to establish a permanent Secretariat, requested the Royal Society to institute an interim Secretariat to implement the resolutions and recommendations of the Congress and to initiate other secretariat activities, and the writer undertook the duties of honorary secretary. Miss Brenda Bishop, Secretarial Assistant for the Congress, continued as Assistant Secretary, and has recently been appointed to the same position in the permanent Secretariat in Honolulu.

The paper-board bound volumes of the Transactions which have for some years been supplied at much less than cost will no longer be available. Insufficient copies were ordered at the increased rate of four shillings to enable the Council of the Royal Society to continue the issue.

Natural history and ethnographical accessions are mentioned in the corresponding staff reports; gifts to the historical and arts sections include a seraphine (precursor of the harmonium) used in the early Northland mission, presented by Mrs. Ernest Elliott; a pennyfarthing bicycle and an early motor "buggy" given by the Automobile Association; the dress sword of Captain Demoulin, first surveyor of Auckland, presented by Mr. Vaile; and a French gilt and enamel clock deposited by Mrs. E. M. Dodd. Military accessions include a map of London showing the bombing during the first world war, given by a "Digger," and a full-dress uniform of Colour-Sergeant Frost of the 70th Regiment, presented by Mrs. D. Maher.

With this year's issue of the "Records," the third volume of the Museum scientific journal was completed. Papers were contributed by Mr. H. Barraclough Fell, Mr. A. W. B. Powell, Mr. E. G. Turbott, Mr. R. C. Cooper, and Mr. M. H. Battey.

While systematic botany and zoology inevitably comprises the major part of our scientific publications, an increased proportion is now appearing on field observations and studies on the relation of animals and plants together in, and forming part of, an environ-

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ment. Members of the staff have all been active in the field at the following localities: Mr. Powell, Hauraki Gulf, North Cape, Ruahine Range; Mr. Fisher, Mercury Bay; Mr. Turbott, Warkworth, Hen and Chickens, National Park, and the *Notornis* area; Mr. Battey, Ngauruhoe, Northland, Cobb Valley; Mr. Cooper, North Auckland, Waipoua, Doubtless Bay, and Ngauruhoe; Dr. Archey, Doubtless Bay and Waitomo.

Acknowledgement is made of transport for these trips kindly contributed by members of the Institute and other colleagues of scientific members of the staff. Without this much-appreciated assistance a great deal less collecting could be undertaken with the modest sum available for collecting and travelling expenses.

The greater part of the museum collections continues to be derived from systematic collecting by the staff; specimens thus obtained have added value from the records made in the field as to their occurrence and relationship; they are not only the basis of the scientific staff's own investigations but are also the foundation of the explanatory displays made in the museum and of the several public lectures which the members of the staff deliver each year.

Photographic studies, which are an important part of the work, have for some years extended into the field of cinematography. It is a pleasure to acknowledge the benefit to the museum, in both scientific and educational work of the special cinematography fund generously established by a lady member of the Institute five years ago.

GILBERT ARCHEY.

Assistant Director

The year has been a busy one owing to several extra activities and collaborative work with visiting molluscan specialists.

Editing of the manuscript for the Oceanography Division of the Seventh Pacific Science Congress has been completed and forwarded for publication in the Proceedings. An invitation to serve on the Pacific Science Association's standing committee on oceanography has been accepted. The 1948-49 "Annual Report" and the "Records of the Museum" were supervised through the press. Also, two Educational Leaflets—No. 6, "How to Make a Collection of Seashore Animals," and No. 7, "New Zealand Shellfish; How they are Classified," were written and published. A series of nature articles were contributed to the Children's Section of the "New Zealand Herald."

Nineteen outside lectures were delivered, including seven as part of an Adult Education course in the W.E.A. Biological Series.

The Museum Conchology Club completed its nineteenth year in March with an active membership of 66. Twelve well-attended evening meetings were held, and the club's Bulletin, No. 5, containing nine original articles, was published.

Mrs. N. Gardner, who has assisted one day per week for some years, has completed a useful Bibliographic Index of South-West Pacific Mollusca.

Field trips through the courtesy of the Marine Department resulted in the securing of some useful deep water samples from the Hauraki Gulf. The work was carried out from the Government Research Trawler "Ikaterere." Motor transport provided by Messrs. A. C. O'Connor and A. Hancox made possible successful collecting trips to the North Cape, Doubtless Bay, Herekino, and the Ruahine Range.

A visiting paleontologist, Dr. Katherine van Winkle Palmer, of Ithaca, New York, spent some time examining material from the Museum collection of fossil mollusca. Mr. R. K. Dell, of the Dominion Museum, Wellington, also did some work with the aid of the collections, and a week was spent in collaboration with Dr. J. Marwick, of the New Zealand Geological Survey, on the preparation of a joint work—"A catalogue of the New Zealand Recent and Fossil Mollusca."

Much useful material in molluscs, echinoderms, crustaceans and fishes was contributed by the Fishermen's Company Ltd., Auckland, and I have to thank the manager, Mr. C. H. Booth, for personally securing and delivering the specimens. Mr. Gordon Williams, of Mt. Maunganui, has forwarded for research many new species of mollusca found in fishes' stomachs and from deep water grounds off Mayor Island, and Mr. S. Voss, of Tauranga, has donated trawled specimens from the Bay of Plenty.

Land snail material, including several new species, was presented by Mrs. N. Travers, Dr. G. T. S. Baylis, and Major M. E. Johnson, who brought back material from West Island, Three Kings, upon which he made the first landing in January of this year.

Five papers have been published during the year: The Paryphantidae of New Zealand, No. 6, New Species of Crustacea from New Zealand of the Genera *Scyllarus* and *Ctenocheles*, A Second Record of a King Crab from New Zealand waters, Biological Primary Types in the Auckland Museum, No. 3, and The Species Problem in New Zealand Land Snails.

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A considerable amount of work has been devoted to a better arrangement of the Molluscan research collections, four new tanks provide more satisfactory storage for the New Zealand fishes, and the large collection of natural history and scenic photographic negatives have been arranged for easier reference.

An extra task was the cataloguing and sale of a valuable collection of postage stamps, part of the Mr. A. V. Hanson bequest.

A. W. B. POWELL.

Ethnologist

The accessions for the year totalled 2,270, which includes a large number of interesting entries, the more notable being: an eel killer; a New Guinea pendant; Maori fish hooks with original lashing intact; Pacific Island implements consisting of a selection only received from the Edward Earle Vaile Trust Fund; three pieces of early Persian faience, two bowls and a plaque, from Mrs. E. M. Rutherford and Mrs. Powell; a fine "reel" pendant, the gift of Mr. A. H. Watt; a small drum and elephant spears from Uganda presented by Mr. M. C. Williams; a delicately carved Maori wooden comb from Mrs. L. Keene, and a massive stone Fijian bowl lent by Mr. T. G. Knox.

Two lectures were delivered, including an address on "The Study of Anthropology" to the Hawke's Bay branch of the Royal Society. Lecturettes were given to Training College students at the Museum and a demonstration to occupational therapy students to explain how ethnographical material can be exploited for specialised purposes.

A week's field work in the Mercury Bay area resulted in the addition of interesting archaeological material to the collections. Visits were paid to a number of districts to inspect recent finds or private collections.

Duties as Honorary Secretary of the Art Galleries and Museums Association of New Zealand have included acting on a Standing Committee set up to advise on the allocation of the Oldman Collection of Polynesian, Melanesian and Micronesian material. It is expected that distribution will be effected during May.

Owing to the rapid growth of the study collections there is now a serious lack of space in the research room, and at least twice the present space would be necessary for ready reference and

efficient arrangement of the existing collections, without taking into account future accessions. This position was partially alleviated by the acquisition of six steel filing cabinets. The material stored in the cabinets includes greenstone ornaments, chisels and small adzes; scrimshaw, personal ornaments and related specimens. A new wooden cabinet to contain the negative collection has made this more readily available.

Further assistance was given to the indexing of the Maori and Oceanic language texts, which continue to attract an increasing number of students. Owing to the courtesy of Dr. H. D. Watson, of New York, a valuable exchange of twenty-eight North American Indian ethnographical specimens was received.

A number of Training College and University students were given advice concerning the preparation of projects and theses. Suggestions were offered to the commanding officers of four frigates of the Royal New Zealand Navy regarding suitable crests and mottoes with a Maori background. Information and literature references have been supplied to a number of workers about to engage in missionary or official duties in the Solomons and elsewhere. Basic notes on Maori exhibits were compiled for the use of the School Service. Specimens illustrating Maori culture have been made available to the Training College and lantern slides loaned to teachers and lecturers. A set of slides was assembled for the use of a University lecturer in Tasmania.

With the establishment of a Chair of Anthropology at the Auckland University College under Dr. R. Piddington, to whom co-operation has already been offered, an added interest in the work of this department will undoubtedly result.

Miss A. Joan Metge, student assistant, has kept the registrations of acquisitions up to date and has assisted in the arrangement of the collections to the best advantage for ready reference and study.

V. F. FISHER.

Associate Ethnologist

In the Pacific Hall three further Melanesian exhibits have been arranged. These are a general display of Papuan domestic arts and a case of ceremonial material from New Ireland. The third exhibit, of Melanesian stone work, contains new material which is arranged to compare several types of interesting working and ceremonial tools from New Guinea and the Solomon Islands.

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A new experiment was tried in the Papuan case with the use of cut-out figures designed by Miss Judy Macky. It has been possible by this method to display a large quantity of material limited, of course, to a particular region. The South-East Coast was chosen in this case.

In the Maori Hall a rearrangement of greenstone pendants has enabled us to display a selection of very fine *hei tiki* from recently acquired collections.

Material connected with the canoe—paddles, bailers, anchors and ropes—has been brought together in a case at the entrance to the Maori Court.

Two special exhibits of European fine arts material from reserve collections have been arranged in a case now set aside for this purpose.

OLWYN M. TURBOTT.

Botanist

Additions to the herbarium for the year totalled 2,333 collectings, of which 1,548 came by exchange or gift and 785 from local fieldwork. Two outstanding gifts were a further 767 sheets of Hawaiian plants from Drs. Skottsberg and Selling and Mrs. Watson Smith, and 538 sheets of orchids from Mr. E. D. Hatch, of Laingholm.

Additions to the photograph and negative collections included 167 plates made by the late Mr. T. F. Cheeseman and presented by Mr. W. A. Heap, of Bayswater. They are in good order and are a valuable addition to the collection.

Other accessions included an interesting display of native lichens and the dyes obtainable from them, from Miss Nancy Couzins, of Christchurch; 25 attractive plant photographs from Mr. A. N. Breckon, of Northcote; and maps, samples and illustrations of the tea industry from the Tea Bureau, Wellington.

Eleven requests for the loan or gift of herbarium material were received (five from overseas and six from New Zealand botanists), and a number of local botanists worked in the herbarium during the year.

Seventy requests for the identification of packets of native and garden plants, weeds, timbers, etc., were dealt with by mail, and identifications have been supplied to visitors and the Education Officer as required.

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Several field trips were made during the year. Six days were spent on a visit to Waipoua, Kaitaia and Whangarei with Dr. Egbert H. Walker, a delegate to the Seventh Pacific Science Congress from the U.S. National Museum. The opportunity to discuss recent advances in field and herbarium methods is all too rare, and the invitation to accompany Dr. Walker was greatly appreciated. Mr. and Mrs. J. Prickett, of Bayswater, provided transport and grateful thanks are extended to them for their assistance in this and other ways.

In December Miss R. Mason and Mr. N. Moar, of the Botany Division, D.S.I.R., Wellington, spent a fortnight in North Auckland collecting bog and water plants and invited the writer to accompany them. The new drying sheets of corrugated cardboard and aluminium, recommended by U.S. delegates to the Science Congress, were tried out with good results, and 400 collectings were obtained for the herbarium. A further 200 collectings were obtained in January at Taipa and on the Rangiahia Peninsula.

These excursions have brought in interesting material, but progress in the study of it is slow while so much time has to be given to the older collections. The mounting and sorting of the exotic collection has been continued, and the portion completed has been of great value in identifying weeds and cultivated plants. Unfortunately, the services of Miss S. A. Rose were lost on the termination of the student assistant scheme in June, 1949. She resumed for a short time in December, but has now taken a teaching post. Miss Rose was part-time assistant for nearly three years, and her services are missed.

A Cheeseman Flower Show was not held during the year, but a display of drawings and photographs of native plants and animals was opened by Mrs. Watson Smith on Saturday, 16th July, 1949, and continued until 31st July. Thanks are due to the 30 owners of paintings, fabrics, etc., who lent material for the display.

The Scenery Preservation Committee met twice during the year, and a statement setting out the Committee's views on Rangitoto Island was prepared and submitted to the Local Body Commission.

Two papers were published in the "Museum Records": "Biological Primary Types in the Auckland Museum, No. 2 Botanical," and "The Effect of the Recent Eruption on the Plants of Ngauruhoe."

ROBERT COOPER.

Ornithologist and Entomologist

Regular maintenance work is necessary on account of the perishable nature of these collections, and short periods of help have been appreciated from two student assistants during their vacation, Messrs. J. Edwards and H. Coop. Attention has been given to the preparation of further insect life history sheets giving basic information to be used in preparing displays, as well as for the School Service and future educational leaflets.

A topical display of introduced wasps in New Zealand has been completed: a most interesting temporary addition to this display was made through the courtesy of Mr. B. W. Devine, of the Department of Agriculture, who loaned an exhibit, fitted with electric connections, of nests and living colonies of European and Tasmanian wasps.

The exceptional opportunity to visit the newly found *Notornis* colony in the Southern Alps came at the invitation of the Wildlife Branch, Department of Internal Affairs. Seven days were spent under winter conditions in the area inhabited by *Notornis* on this second expedition to the region since the birds were re-discovered by Dr. G. B. Orbell. It was found that most of the main summer population of *Notornis* disperses on account of the rigorous winter climate to the surrounding forest. Altogether, evidence was found of seven *Notornis*, of which only two were seen. A short 16 mm. colour film was made during the expedition.

Earlier in the year I accompanied this Department's expedition to the Hen and Chickens Islands from 17th to 30th May, for a special investigation of the saddleback and of the general bird life of this group. In addition, a collection of orthopterous insects was made.

In further relation to field work on native birds, I was invited to accept appointment as a member of the Rare Native Birds Advisory Committee established by the Hon. Minister of Internal Affairs as advisory to the Wildlife Branch, attending one Committee meeting during the year.

A field trip of one week was made in October to the National Park-Taupo area specifically to collect stone-flies and caddis-flies, two orders poorly represented in the Museum collections.

Two short papers have appeared in the "Records" this year: "Observations on the Occurrence of the Weddell Seal in New

Zealand" and "Discovery of the Breeding Habits of *Leiopelma hochstetteri* Fitzinger." The last describes the collecting for the first time, at Warkworth, of the eggs of this New Zealand frog. A list of type material has been drawn up for these departments.

Again there have been a number of requests for research facilities using Museum material, this in turn benefiting the collections which receive specialist determinations. Insect groups which have thus been referred to during the year are Dermaptera, Odonata, Hemiptera, Lepidoptera and Diptera. Mr. A. E. Brookes has again kindly identified New Zealand Coleoptera.

It is pleasing also that the reference collections are being examined frequently by members of the Ornithological Society of New Zealand carrying out field work locally.

Twelve lectures given personally include six as part of this year's W.E.A. "Field Biology" course. In Mr. Fisher's absence the Museum Sunday Afternoon Series of nine public lectures was arranged.

Additional work has been in relation to the Seventh Pacific Science Congress as Honorary Editor for the Proceedings in Zoology, the editing of the considerable amount of material being still in progress. Following upon the Congress I received appointment as Chairman of the Pacific Science Association's Standing Committee on Distribution of Terrestrial Faunas in the Inner Pacific, the activities of which will continue until the next Congress.

E. G. TURBOTT.

Geologist

Of the material catalogued during the year, 701 items represent additions to the collections. These include an extensive collection of Mesozoic fossils presented by Mr. A. P. Mason, who has, in addition, given much time to the identification and cataloguing of the Museum collections of Mesozoic mollusca. Specimens of the recently discovered Cambrian fossils—the oldest recorded remains of animal life in New Zealand—are included in a large collection of rocks from the Palaeozoic System in north-west Nelson. A wide range of material from northern North Auckland has also been added to the collections. A single item of much interest is part of a bone, believed to be that of a giant reptile, from the Kaipara district, presented by Mr. E. V. Wright.

Two exchange collections have been despatched overseas and one collection of thirty mineral specimens from various countries received.

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While the collections are now a great deal more accessible than at any previous time, pressure on available storage space imposes severe limitations to achievement in this direction. At present, certain newly acquired material cannot be unpacked for want of cabinet space.

A new display on the origin and uses of limestone has been set up during the year. The modelling of a relief map of North Auckland, representing the first section of the larger project mentioned in last year's report, has been completed, largely by Miss Pirie, who has been employed as student assistant but who has also devoted much of her own time to the task. Miss J. Macky made small scale models of two of the giant dinosaurs, of the Mesozoic Era, for exhibition.

Three short visits were made to Ngauruhoe to complete the topographic mapping of the area about the new lava-flow, and a paper dealing with the eruption of 1949 was published in the "Records" of the Museum.

Further examination of the geology of the region about Doubtless Bay was carried out during a three-weeks visit in January. With the arrival of a petrographic microscope from England late in June, study of the rocks collected in this area over the past two years was begun and is continuing. The new instrument, which incorporates a number of innovations in design, is proving most satisfactory and should fulfil all ordinary requirements for petrographic study.

The first half of February was spent in the Cobb Valley district of Nelson, with a party organised by Professor W. N. Benson, engaged in geological mapping of the Cambrian strata discovered there two years ago. This expedition furnished much valuable display material for the Museum, for Palaeozoic rocks have been but poorly represented in our collections hitherto.

A grievous loss was sustained in the death of Professor J. A. Bartrum during the year. Lecturing duties at the University College, undertaken during his final illness, were continued, with the permission of the Council, until the end of the Academic year. Five lectures were delivered to other organisations.

An increased number of enquiries from the public on geological matters was dealt with during the year. In addition to its value for research, the new microscope is proving of great utility in providing a rapid solution to many problems of mineral identification arising in this way.

M. H. BATTEY.

Education Officer

The work of the Education Section is carried out by the Education Officer, an Assistant and an Art Technician. The following is a summary of the number of children having attended one-hour lessons for the year ended 31st March, 1950:

Primary	Intermediate	Secondary	Special Groups and Students	Total
17,822	3,786	4,288	2,702	28,598

The preparation of loan material has continued in co-operation with Mr. and Mrs. Turbott, Mr. Battey and Mr. Cooper. New school cases, bird boxes, loose material boxes, and displays have been made, giving a total stock of 88 school cases, 90 bird boxes, 23 displays and 8 loose material boxes. Some 460 loans were made to 218 schools; 60 in the city and 158 in the province. The new loan material comprises the largest addition made in any one year, and is the satisfactory outcome of the appointment of an art technician. Although the amount of material lent, together with the number of schools serviced, is the largest yet attained, it still fails to meet the frequent requests of teachers wishing to utilize the facilities. Moreover, the service reaches less than one-third of the schools in the province, and it is clear that there is an even greater potential demand soon to be met, particularly from rural areas where the children can but rarely visit the Museum.

Educational films were shown on 11 days in the May and August holidays to 5,016 children. Natural history material has been identified for teachers and children throughout the Auckland Province. The Cheeseman Competition took the form of projects on the Economic Importance of the Natural Resources of New Zealand for the two upper groups, 13-16 years and 16 years and over, and pressed specimens for the younger children aged 10 to 13 years and under 10 years. The most enthusiasm was shown in the lower grades. A Photographic and Art Competition among the schools met with a large response from a wide area.

Three Natural History Clubs, junior, intermediate and senior, continue to flourish under the capable and enthusiastic guidance of Miss Hurrey on Saturday mornings. In twenty meetings 70 children have made 273 attendances. Two full day excursions were made to Rangitoto. The section is indebted to Mr. Cooper for attending and helping in these expeditions, and for the loan of a microscope and slides in this work.

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The Auckland Training College students attached to the Museum for practice in informal education methods have been of great assistance. The graduate students spent a day examining the Museum as a source of teaching material. All the students from Ardmore College also spent a day at the Museum familiarising themselves with the work of the Education Section.

The children are always glad to have "hunt-the-answer" sheets, and they are finding additional pleasure in the new outline drawings which they may colour with crayons. This not only adds zest, but compels the child to look carefully for, and at, the selected items; it also enables the work to be graded more closely to the capacity of the age group. One hundred new slides (mostly replacements) have been prepared and 225 have been rebound.

Except for a few fittings the new class-room is ready. A Bell & Howell—Gaumont 35 mm. sound projector has been supplied by the Education Department. The use of two class-rooms will add to the flexibility of this section.

The Education Section thanks the Museum staff for their co-operation and assistance throughout the year. I wish to thank Miss Lloyd for the advances made during her eight years as Education Officer.

R. A. SCOBIE.

Librarian

During the year, 1438 books have been added to the Library. Of these, 1067 were purchased from the Edward Earle Vaile Trust Fund. This fund has made it possible to acquire a number of rare and important works on the Pacific, consisting mainly of accounts of voyages of exploration and of scientific expeditions. A reduction of 25% in the licence to import books from dollar areas has meant that most of the new books purchased have been English publications, the dollar licence being used chiefly for periodical subscriptions and a few important works not obtainable elsewhere. It has been necessary to cease purchasing any second-hand material from the United States.

Efforts have been made to complete the holdings of the two German periodicals, *Archiv der Pharmazie* and *Monatshefte für Chemie*. No numbers had been received since the outbreak of war, and some are now unobtainable. However, some numbers have now arrived and others should arrive shortly. Through the system of exchange of duplicate material, other gaps in periodical holdings are gradually being filled.

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Through contacts made at the Pacific Science Congress, a number of books and periodicals have been received by donation or exchange.

The Library of the New Zealand Ornithological Society is now under the administration of the Institute Library. Under the terms of the agreement, Institute members may borrow from this library.

During the Exhibition of Paintings and Photographs held during July, some of the library's early and rare works were on display.

With the continuing expansion of the library, space has again been a problem. However, 100 glass shelves erected on the top floor and in the Staff Room have provided accommodation for unbound periodicals, and the addition of seven steel stacks to the main reading room will relieve the congestion for some months.

Borrowings continue to increase: 3,400 books were borrowed by members during the year, and 185 by other libraries through the interloan system. Sixty books were borrowed from other libraries for members. Postal borrowings by country members numbered 76. All these figures are considerably higher than those for any previous year.

With the growth of the library, and the consequent increased use being made of it, current work has demanded more and more time, and it has not been possible as yet to complete the cataloguing of the older stock. Nine thousand books and pamphlets have been catalogued to date, leaving approximately 2,000 books and 2,000 pamphlets still to be done. It will not be possible to complete this work for some years.

We have again been fortunate in receiving a number of donations of books and periodicals. Miss E. M. Stephenson and Miss E. M. Upton have continued to pay the subscriptions of three periodicals, as they have been doing for some years, and we are very grateful indeed to them. We also acknowledge with thanks donations from the following: Sir Carrick Robertson, Hon. T. Bloodworth, Dr. E. S. Dukes, Dr. J. W. Freudenberg, Dr. A. H. Hallen, Dr. C. H. Tewsley, Captain S. R. Banyard, Messrs. L. W. Allen, H. L. Bryant, J. W. Civil, T. B. Hancock, D. J. Hughes, J. H. Jackson, Noel Johnson, K. Kenealy, W. Kingsley, T. W. Mellor, G. Nevill, F. Quayle, E. G. Rhodes, J. H. Rose, F. M. Shepherd, D. N. Strang, N. R. W. Thomas, Mrs. J. D. A. Cox, Mrs. Kibb'e, Mrs. W. Macdonald, Mrs. McKay, and Miss M. B. Luff.

ENID A. EVANS.

AUCKLAND INSTITUTE AND MUSEUM

RECEIPTS AND PAYMENTS ACCOUNT

For the Year Ended 31st March, 1950.

	£	s.	d.		£	s.	d.
To Balance, 1/4/49	1,669	1	2	By Salaries and Wages	8,789	19	6
" Subscriptions	584	0	6	" Insurance	63	8	2
" Subscriptions in Advance, 1950-51	21	10	6	" Library Expenses	88	6	11
" Life Subscriptions	115	10	0	" Library Books	251	0	7
" Interest—				" Institute Expenses	258	17	11
Mortgages	78	6	1	" Specimens—			
Debentures	182	10	0	Purchase	29	1	6
N.Z. Government Stock	925	5	10	Collecting and Travelling	268	8	6
Australian Stock	52	3	10	" Preserving and Display	205	7	1
" Local Body Contributions	10,668	0	0	" School Services, Education, Prizes	13	15	3
" Sundry Receipts	28	5	10	" Publications, Photos	314	6	3
" Savings Bank Interest	236	17	0	" Publications Reserve Account	769	9	11
" Sale of Transactions	27	3	3	" General Maintenance	803	6	3
" Sale of Publications—Reserve Account	939	6	8	" Buildings Maintenance	238	0	5
" A. G. Lunn Bequest	25	0	0	" Showcases and Furniture	352	0	10
" C. V. Houghton Bequest	2	18	9	" Scientific Equipment	201	14	4
" Rents from E. E. Vaile Properties Trust	2,016	14	7	" Education Schoolroom Account	450	0	0
" Receiver of Land Revenue—				" Auckland Museum Maintenance Amendment			
Sales	4	4	9	Act, 1931 (Section 37)—			
Rent and Interest	22	2	7	Entertainment, Wreaths	3	19	9
" Mortgages—Reduction of Principal	65	0	0	" Expenditure—A. V. Hanson Estate	18	12	11
" Contributions—				" Sundry Creditor paid—Refund to Mrs. Smith	18	2	0
Specimens Purchase	89	12	3	" Edward Earle Vaile Trust Fund—			
Memorial Hall Account	31	15	2	Specimens purchased	419	18	4
" Special Donations	53	13	6	Library Books purchased	1,741	18	1
" Book Debt—Refund by Science Congress	42	10	1	Outgoings on Properties	201	15	2
" Transfers—				Obsolescence Fund Account, 1949-50	200	0	0
Education Schoolroom Grant	450	0	0	Balance Unexpended, 31/3/50	6	6	5
Horton Geology Fund	28	15	1	" Transfers—			
A. V. Hanson Estate	18	12	11	Investment Account	65	0	0
Library Shelving Reserve	35	4	10	Life Subscriptions Account	115	10	0
Sale of Books—E. E. Vaile Trust	274	8	0	Specimen Purchase Account	89	12	3
E. E. Vaile Trust—Unexpended, 31/3/49	278	15	5	Memorial Hall Account	31	15	2
				Museum Endowment Account	4	4	9
				Publications Reserve Account	160	16	9
				Building Reserve Account	500	0	0
				C. V. Houghton Bequest	2	18	9
				A. G. Lunn Bequest	25	0	0
				" Balance, 31/3/50	2,254	14	5
	£18,957	8	7		£18,957	8	7

INCOME AND EXPENDITURE ACCOUNT

For the Year Ended 31st March, 1950.

EXPENDITURE.		INCOME.	
	£ s. d.		£ s. d.
Salaries and Wages	8,789 19 6	Subscriptions	677 15 6
Insurance	63 8 2	Interest—Mortgage, Debenture, Stock	1,231 16 6
General Maintenance	803 6 3	Life Members' Subscriptions	115 10 0
School Services, Education, Prizes	13 15 3	Contributions from Local Bodies	10,668 0 0
Publications, Photos	314 6 8	Sundry Receipts	28 5 10
Institute Expenses	258 17 11	Sales of Transactions	27 3 3
Unauthorised Expenditure—		Savings Bank Interest	236 17 0
Entertainment, Wreaths	3 19 9	Rent—Receiver of Land Revenue	22 2 7
Building Maintenance	238 0 5	Memorial Hall and Specimen Purchase	121 7 5
Subscriptions Written Off	28 7 0	Special Donations	53 13 6
Balance Carried Down	2,668 10 8		
	<u>£13,182 11 7</u>		<u>£13,182 11 7</u>
Capital Purchases from Revenue	1,333 19 10	Balance Brought Down	2,668 10 8
Appropriations—			
Buildings Reserve Account	500 0 0		
Life Members' Capital Reserve Account	115 10 0		
Memorial Hall Trust Account	31 15 2		
Specimen Purchase Account	89 12 3		
Balance, 31/3/50	597 13 5		
	<u>£2,668 10 8</u>		<u>£2,668 10 8</u>

EDWARD EARLE VAILE TRUST FUND.

	£ s. d.		£ s. d.
To Ethnological specimens purchased	419 18 4	By Gross rents received to 31/3/50	2,265 18 6
" Library books purchased	1,741 18 1	Less Commission	£85 4 0
" Obsolescence Fund, 1949-50	200 0 0	" Insurance	45 1 2
" Balance unexpended, 31/3/50	6 6 5	" Repairs	119 13 5
		" Rates	191 0 0
		" Sundries	10 0 6
			<u>450 19 1</u>
		Nett Revenue	1,814 19 5
		Balance unexpended, 31/3/49	278 15 5
		Sale of books	274 8 0
	<u>£2,368 2 10</u>		<u>£2,368 2 10</u>

EDWARD EARLE VAILE TRUST FUND.
Balance Sheet as at 31st March, 1950.

	£	s.	d.		£	s.	d.
Capital Account	£40,000	0	0	Properties valued at .. .	£40,000	0	0

MUSEUM ENDOWMENT ACCOUNT.

	£	s.	d.		£	s.	d.
To Balance, 31/3/50—				By Balance, 1/4/49—			
Investments	13,987	18	11	Investments	13,939	3	3
				Cash at bank	44	10	11
				„ Sales— Receiver of Land Revenue .. .	4	4	9
	£13,987	18	11		£13,987	18	11

LIFE MEMBERS' SUBSCRIPTIONS ACCOUNT.

	£	s.	d.		£	s.	d.
To Balance, 31/3/50—				By Balance, 1/4/49—			
War Savings Investments .. .	2,140	10	1	War Savings Investments .. .	2,078	3	3
Investments	1,743	1	4	Investments	1,689	18	2
				„ Transfer from Income and Expenditure A/c ..	115	19	0
	£3,883	11	5		£3,883	11	5

ACCUMULATING ENDOWMENT ACCOUNT.

	£	s.	d.		£	s.	d.
To Balance, 31/3/50 .. .	402	1	0	By Balance, 1/4/49 .. .	392	5	0
				„ Interest to 31/3/50 .. .	9	16	0
	£402	1	0		£402	1	0

MACKECHNIE BEQUEST ACCOUNT.

	£	s.	d.		£	s.	d.
To Balance, 31/3/50	8	7	3	By Balance, 1/4/49	8	3	3
				.. Interest to 31/3/50	4	0	
	£8	7	3		£8	7	3

SIR JAMES GUNSON TRUST ACCOUNT.

	£	s.	d.		£	s.	d.
To Balance, 31/3/50	33	8	2	By Balance, 1/4/49	32	12	2
				.. Interest to 31/3/50	16	0	
	£33	8	2		£33	8	2

MEMORIAL HALL TRUST FUND.

	£	s.	d.		£	s.	d.
To Balance, 31/3/50	705	15	9	By Balance, 1/4/49	657	12	1
				.. Interest to 31/3/50	16	8	6
				.. Transfer from I. & E. Account	31	15	2
	£705	15	9		£705	15	9

SPECIMEN PURCHASE FUND.

	£	s.	d.		£	s.	d.
To Balance, 31/3/50	623	5	5	By Balance, 1/4/40	520	13	2
				.. Interest to 31/3/50	13	0	0
				.. Transfer from I. & E. Account	89	12	3
	£623	5	5		£623	5	5

AUCKLAND INSTITUTE AND MUSEUM

BALANCE SHEET AS AT 31st MARCH, 1950.

LIABILITIES.		ASSETS.	
	£ s. d.		£ s. d.
Capital Account as at 31/3/49	446,302 14 2	Buildings as at 31/3/49	206,222 16 1
Add		Add Education Schoolroom	450 0 9
Capital Purchases from Revenue	1,333 19 10		206,672 16 1
Capital Purchases from Reserves	2,399 8 4	Edward Earle Vaile Properties Trust—	
		Properties valued at	40,000 0 0
Endowments—Fixed:	450,036 2 4	Furniture and Fittings—	
Costley Bequest	7,700 0 0	1st April, 1949	23,074 19 7
Mackechnie Bequest	2,000 0 0	Additions	553 15 2
Campbell Bequest	1,000 0 0		23,628 14 9
Herries Bequest	1,000 0 0	Collections—	
Shaw Bequest	1,000 0 0	1st April, 1949	163,202 16 10
Goldie Bequest	1,000 0 0	Additions	922 15 5
Marshall Bequest	550 0 0		164,125 12 3
Harding Bequest	500 0 0	Library Books—	
Nathan Bequest	100 0 0	1st April, 1949	13,802 1 8
Pond Cheeseman Bequest	100 0 0	Additions	1,806 17 7
Gore Adams Bequest	100 0 0		15,608 19 3
Mitchelson Prize Fund	100 0 0	Investments—	
Houghton Bequest	530 15 6	Mortgages	1,464 0 3
Cinematography Trust Fund	2,000 0 0	Debentures	4,531 0 2
Auckland Savings Bank Trust		N.Z. Government Inscribed Stock	31,262 18 2
Fund	5,500 0 0	N.Z. War Savings Investments ..	9,275 7 7
A. V. Hanson Bequest	770 7 2	Australian Commonwealth Stock ..	1,982 10 0
E. P. Mitchelson Bequest	1,000 0 0		48,515 16 2
A. G. Lunn Bequest	25 0 0	Sundry Debtors—	
	24,976 2 8	Subscriptions	161 14 0
Endowments—Increasing:		Interest accrued	112 10 0
Museum Endowment	13,987 18 11		274 4 0

Reserve for Depreciation of Investments	377 11 8		
Life Membership Subscriptions ..	3,883 11 5		
Accumulating Endowment (Ambury Bequest)	402 1 0	18,651 3 0	
Reserve—			
Building Maintenance	4,982 11 11		
Gunson Specimen	33 8 2		
Leys' Fund for Ethnographical Specimens	105 0 0		
Memorial Hall	705 15 9		
Specimen Purchase	623 5 5		
Mackenzie Library	8 7 3		
Horton Geology Fund	97 17 5		
Cases for White China	10 10 0		
Donation for purchase of Swords ..	10 0 0		
Publications Reserve Account ..	996 13 9		
Edward Earle Valle Properties Trust—			
Obsolescence Fund	610 0 0		
Balance Revenue Account ..	6 6 5	8,189 16 1	
Sundry Creditors—			
Subscriptions in Advance	21 10 6		
Bank of New Zealand:			
Debit Balance	44 3 10		
Add unpresented cheques 75 7 11		119 11 9	
		141 2 3	
Income and Expenditure Account—			
Balance, 1/4/49	1,909 14 6		
Add Credit Balance, 31/3/50 ..	597 13 5	2,507 7 11	
		£504,501 14 3	
			£504,501 14 3
Cash—			
Post Office Savings Bank	1,028 10 8		
Auckland Savings Bank	4,636 1 1		
Cash in hand	10 0 0		
Change	1 0 6	5,675 11 9	

GILBERT ARCHIE,
Treasurer.

AIM Ann Report
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List of Benefactions
made to the
Auckland Institute and Museum
of an amount (or value) exceeding £50.

MONETARY GIFTS.

- 1876 Auckland Citizens: £2,026 subscribed towards first building.
1878 Mr. J. C. Firth donated £106 for show cases.
1884 Mr. Edw. Costley bequeathed £12,150.
1887 Mr. David Nathan bequeathed £100.
1897 Mr. T. Russell donated £100 for geological specimens.
1901 Auckland Citizens subscribed £1,000 for Mair Collection.
1902 Mr. E. A. Mackechnie bequeathed £2,500.
1906 Auckland Citizens subscribed £662 for carved houses.
1911 Auckland Citizens subscribed £684 for ancient carvings.
1913 Sir John Logan Campbell bequeathed £1,000.
1921 Institute Members subscribed £115 for Temple Bronzes.
1923 Sir Wm. H. Herries bequeathed £1,000.
1924 Citizens subscribed £698 for Maori collections.
1925 Institute Members subscribed £109 for Maori collection.
1926 Sir James Gunson Presentation Committee presented £118 for Maori collection. Mr. David Goldie bequeathed £1,000.
1927 Mr. F. Shaw bequeathed £1,000.
1929 Mr. S. J. Ambury bequeathed £250.
1934 Mrs. R. M. Wilson: £50/10/-, given to establish the Sir Edwin Mitchelson Prize Fund.
1940 Mr. Maurice Harding bequeathed £500.
1941 Mr. Ormsby Gore Adams bequeathed £100.
1942 Mr. J. A. Pond bequeathed £100 to commemorate the scientific achievements of Thomas F. Cheeseman.
1944 Mr. E. Earle Vaile gave two blocks of shops and residences worth £10,000 as an endowment for ethnological collections and books.
Mr. R. C. Horton gave £200 towards extending the mineral collection.
"Two Friends" gave £150 for Library book-cases.
£428 received on account of a bequest by Mr. C. V. Houghton.
Mitchelson Prize Fund increased to £100.
1945 "Anonymous" gave £2,000 as an endowment for Cinematography.
Auckland Savings Bank gave £500 for improvements to Exhibition Halls.
Auckland Electric Power Board gave £100.
Mr. R. C. Horton gave £70 for purchase of Georgian Silver Tea Set.
1947 Auckland Savings Bank Centennial Gift of £5,000.
Mr. A. V. Hanson bequest of approximately £2,000.
1948 Mr. E. P. Mitchelson, bequest of £1,000.

SPECIMENS AND BOOKS.

- 1876 Mr. R. C. Barstow: Large collection of Maori articles.
- 1877 Mr. G. F. Edmonston: 564 volumes of scientific works.
- 1878 Mr. T. Russell, C.M.G.: 34 casts from the antique.
- 1878-83 Mr. J. T. MacKelvie: 390 books and ethnology collection.
- 1887 Mr. C. O. Davis: Valuable Maori collection.
- 1901 Mr. L. D. Nathan: Japanese Shinto Shrine.
- 1913 Mr. Henry Shaw and Mr. F. Chaw: 172 scientific books. Hon. Sir Edwin Mitchelson: Valuable Kauri Gum collection.
- 1915 Dr. C. E. R. Bucknill: Collection of Old English Glass.
- 1916 Mr. Henry Shaw: Collection of Japanese art.
- 1917 Miss Ruth Northcroft: Large Maori and Polynesian Collection
- 1919 The Misses Yates: Collection of Indian weapons.
- 1920 Mr. James Dunning: Collection of North American Mammals.
- 1921 Mr. W. A. Aldred: Valuable collection of Maori specimens.
Hon. J. B. Turner: Important Fijian ethnographical collection
- 1923 Mr. T. F. Cheeseman, F.L.S., F.N.Z.Inst.: The Cheeseman Herbarium of native and foreign plants.
- 1924 Mr. Wm. Sutherland: Melanesian ethnographical collection.
Mr. A. C. Caughey: Fijian and New Hebridean ethnographical collection.
Mr. R. A. Meek: Ethnographical specimens from Bismarck Group. Messrs. Samuel Vaile & Sons: Large collection of Maori greenstone articles. Sir Cecil Leys and Mrs. Selwyn Upton: The Edge-Partington ethnographical collection of over 2,000 specimens, given in memory of their father, Dr. T. W. Leys.
- 1925 Mr. F. Crossley Mappin: Valuable Maori and South Pacific exhibits.
- 1926 Mr. Geo. F. Webster: Valuable Maori antiquities.
Mr. H. R. Butcher: Collection of British coins.
Mrs. E. M. Ball: The Thos. Ball Zoological collection.
Mr. F. Crossley Mappin: Ancient Chinese ceramic specimens.
Mr. Hallyburton Johnstone: Silver cup presented by Queen Victoria in 1878 to the Royal George Yacht Club.
- 1927 Mr. F. Crossley Mappin: Valuable Maori carvings.
Mr. Moss Davis: Valuable ethnographical specimens.
- 1928 Sir Cecil Leys and Mrs. Selwyn Upton: Unique and richly carved feather box.
Mr. J. R. Adams Wilkes: Ethnographical collections from Nigeria and New Guinea.
Mr. Harry Kinder: The Dr. Kinder Collection—Maori and Melanesian.
Mr. E. Earle Vaile: Important collection of Maori stone carvings and collection of Eastern ethnographical specimens.
Mrs. S. J. Lushington: Large collection of mollusca.

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- 1929 Mr. T. H. Barstow: Maori canoe prows and stern posts.
Mr. W. R. McGregor: New Ireland carved memorial figures.
Mrs., Miss and Mr. A. N. Cooper: The Charles Cooper collection of mollusca.
Rev. W. H. Webster: Large collection of mollusca.
Mr. C. E. Clarke: Large collection of N.Z. Insects.
Executors Mr. W. M. Cole: Stone and Bronze Age Artifacts.
Miss Webster and Mr. G. F. Webster: Water-colour drawings of the Solomon Islands.
- 1930 Mr. John Kenderdine: Large collection of books and pamphlets, including rare early New Zealand works. Mr. H. E. Vaile: A large collection of Maori implements and greenstone ornaments. Mr. Moss Davis: Selected Maori exhibits; also porcelain and ivory. Mr. L. J. Matthews: Two specimens of Moa eggs. Dr. L. Cockayne: Large collection of N.Z. plants.
- 1931 Sir Cecil Leys and Mrs. Selwyn Upton: Valuable Maori antiquities: additions to the Dr. T. W. Leys collection. Mrs. S. J. Lushington: Collection of Silver and Sheffield Plate. Mrs. A. C. Lennard: Collection of English porcelain.
- 1932 Mr. H. S. Dadley: Large and valuable collection of Oriental Arts. Mr. Moss Davis: British Gold and Silver Coins and European Ivories and Bronzes. Hon. Sir James Parr: Gold and Silver Mementoes of public events in New Zealand, and case for their display.
- 1933 Vaile Collection: Additional gift of many valuable Maori antiquities. Mr. W. Goodfellow: Extensive ethnographical collection from Northern Melanesia.
- 1934 Miss Eleanor Brown and Mrs. Geo. Brownlee: Collection of heirlooms of the Ngati-toa and Ngati-awa Tribes. Messrs. R. B. & G. Matthews: The H.B. Matthews Herbarium.
- 1935 Mr. F. Crossley Mappin: Maori Specimens, including handsomely carved sternpost.
The Admiralty: Model of H.M.S. New Zealand.
- 1936 Captain G. Humphreys-Davies: Large and valuable collection of Chinese pottery figures. Mrs. T. G. Russell: 235 volumes of chemical and physical works from the library of her father, the late Professor Brown. Mr. E. Earle Vaile: Valuable Maori hei-tiki and Rapa Island stone artifacts. The Estate of the late H. E. Vaile: Maori and Polynesian ethnographical collection; carvings and ornaments.
- 1937 Mr. E. Earle Vaile: Collection of ethnographical specimens and six Italian bronzes. Sir Algernon Thomas: Library of scientific books and papers.
- 1938 Mr. E. Earle Vaile: Gift of many early New Zealand books and journals. Mr. J. R. le B. Tomlin: Gift of valuable early editions of natural history works. Mr. F. Crossley Mappin: Early Chinese Pottery and Bronzes.

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- 1939 **Mr. E. Earle Vaile:** Maori carvings, large Melanesian collection and gifts to the Library. **Mr. J. R. le B. Tomlin:** Gift of early Worcester china and early works on natural history. **Mr. W. Goodfellow:** Large Melanesian collection.
- 1941 **Mr. H. R. Jenkins:** Historic anchor associated with the ill-fated H.M.S. Bounty. **Mrs. T. G. Russell:** 500 volumes of botanical and biographic works from the library of her father, the late Professor Brown.
Mr. Ormsby Gore Adams bequeathed cinema camera, photographic equipment and nature films.
- 1942 **Mrs. A. A. Richardson:** The late Mr. J. D. Richardson's extensive collection of early Auckland photographs and lantern slides.
Col. the Hon. F. Waite, D.S.O., M.L.C.: Large collection of Egyptian pre-dynastic artifacts, flints, slate palettes, and pottery 7500-4300 B.C.; also pottery lamps of Egyptian, Roman, Greek and Arabic manufacture.
- 1943 **Captain G. A. Humphreys-Davies:** His extensive and valuable collection of Chinese arts. **Mr. E. Earle Vaile:** Large collection of books and pamphlets on exploration and early life in the South Pacific. **Mrs. W. H. Hemingway:** The late Mr. Hemingway's display and cabinet collections of insects. **Lt. Col. the Hon. F. Waite, D.S.O., M.L.C.:** Further collections from Egyptian Pre-dynastic, Dynastic and Ptolemaic periods.
- 1944 **Mrs. B. Quigley and Miss E. Kenderdine:** Large number of books on early New Zealand history. **Mr. E. Earle Vaile:** Collection of works on South Pacific exploration and New Zealand history. **Captain G. A. Humphreys-Davies:** Ancient Chinese bronze sculpture. **Mr. J. C. Entrican:** Large collection of Eastern Polynesian stone implements.
- 1945 **Mr. W. G. White:** A valuable very representative collection of Worcester and Chelsea China. **Mr. E. Earle Vaile:** Important Maori Ethnographical Collections, and books on South Pacific Exploration and New Zealand History.
- 1946 **Mr. E. Earle Vaile:** Gave a freehold section with a two-storey building in Queen Street worth over £30,000 as a further endowment for ethnographical collections and books.
- 1947 **Lady Leys Fund, Sir James Gunson Fund, and E. Earle Vaile Fund:** Collection of 60 greenstone hei tiki and greenstone adzes purchased in England.
Mr. Jas. C. Entrican: Gave his extensive moneys collection and library of books on Numismatics.
Mr. Geo. Finn: Presented a collection of books and newspaper records, reports and illustrations collected over a number of years.
Lieutenant A. G. Carnahan, R.N.R.: Presented Viscount Jellicoe's racing 14-footer "Iron Duke."

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ACCESSIONS, 1949-50.

- The late Mr. G. S. Arkle: Collection of stone artifacts.
Automobile Association, Auckland: Penny-farthing bicycle.
Auckland Society of Arts: The Society's Medals for 1885 and 1886.
Auckland Zoological Park: Weddell seal, gibbon and two marmosets.
Mr. A. S. Bailey: Stone toki from Hunua.
Mr. H. J. Barrett: Sections of Pacific Cables, handwoven linen waistcoat and other articles.
Miss Bartholee: Wooden figure from Nias Is. and bamboo water container.
Miss J. Bartley: Olivine basalt from Norfolk Island.
Mr. H. F. Bateman: Twisted stem of *Solanum auriculatum*.
Mr. M. Benjamin: Eland horns and carved paddle.
Professor W. N. Benson: Photographs of trilobites from Cobb Valley.
Mrs. S. B. Bentley: Staffordshire pottery and pewter pepper pot.
Miss Brenda Bishop: Samoan Forces Proclamation, 1914.
Mr. William Duncan Blair: Ramshorn snuff mull, silver mounted, formerly owned by William Blair, who fought for Prince Charles at Battle of Culloden Moor, 1746.
The late Dr. W. A. Blomfield: Egyptian scarab.
Dr. Leon Bossard: Triassic garnetiferous mica schist from Switzerland.
Mr. A. N. Breckon: Photographic prints of native flowers.
Mr. Jeston F. Brown: Wooden shark hooks from Mahurangi.
Mr. Vernon A. Brown: Old pouwhenua from Waiheke Island.
Major G. A. Buddle: Geological specimens from Stella Rock, Three Kings Islands.
Mr. L. Bunby: Old sampler and three Queen Victoria golden jubilee shillings.
Mr. G. R. Buttle: Gypsum from White Island.
Mr. M. B. Carlson: Two kumara weeders from Great Barrier Island.
Mr. R. Carlson: Maori canoe paddle.
Mrs. Caughley: Opal from Coromandel.
Miss S. L. Clark: Case of Australian birds and mammals.
Mr. S. Coldicutt: Greenstone pendant and Oceanic specimens.
Mr. A. Corban: Semi-albino blackbird.
Mr. A. S. Coughlan: Piece of tapa cloth.
Miss Nancy Couzins: Exhibit of lichens with samples of dyed wool.
Mr. C. J. Cox: "Scrimshaw"—engraved bullock horns, and two hand-coloured lithographs.
Mr. C. W. Devonshire: Moa remains from sandhills, Tanoa, near Maungaturoto.
Mr. K. Dimuri: Fijian kava bowl.
Mrs. M. Donaldson: Patch-work quilt.
Mr. David Draffin: "Kauri gum" from Solomon Islands.

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- Mr. C. Duffy: Two Ghurka knives and clam shell artifacts from Malaita, Solomon Islands.
- Mr. John Edwards: One hundred mounted insects from Auckland district.
- Mrs. Ernest Elliot: Seraphine.
- Mrs. I. Ensoll: Mineral specimens from Broken Hill, Australia.
- Mr. V. F. Fisher: Textile fragments from Piha.
- Mr. M. E. Fitzgerald: Bahama pintail—drake.
- Mr. F. F. Gapes: Stone adze from Panmure.
- Mrs. Taima Gillies: Greenstone hei tiki from Takahue, near Kaitaia.
- The Girven family: Photograph of limestone rocks at Waro.
- Mr. J. H. Glover: Engraving of H.M.S. Calliope steaming out from Apia Harbour against the hurricane.
- Mrs. S. E. Gregory: William Morris hand-woven cushion cover and blue and white printed curtains.
- Dr. A. H. Hallen: Abyssinian sword.
- Mr. O. S. Hames: Skeleton of sea leopard.
- Mr. Harnett: Alpine plants from Pyrenees.
- Mr. E. D. Hatch: Large collection of New Zealand, Australian and Canadian orchids, including type material.
- Mr. Charles N. Hawkes: Belek basket dish.
- Mr. W. A. Heap: Photographic negatives of Mr. T. F. Cheeseman's plant studies.
- Mrs. W. H. Hemingway: Five boxes of exotic butterflies and moths, and five Australian bottle-glass spear blades.
- Mrs. C. R. Hemus: Collection of coins.
- Captain B. L. Hewitt: Pair of thumb-screws.
- Mr. Leo Hill: Stone adze and army badge; flax beaters from Waikato.
- Mr. R. T. Hill: Sharpening stone from Northern Wairoa.
- Mr. Hitchcock: Collection of minerals and fossils.
- Mr. F. S. Holman: Piece of timber from limestone in Kamo Mine, Whangarei.
- Dr. R. E. Hope-Pearson: Vase of Celadon ware (green crackle-glaze), Ming Period.
- The late Mrs. Mary James: Stone adze and wooden fern root beater.
- Mrs. M. J. Jemmett: Two stone adzes from Pukeatua.
- Mr. Michael Johnson: Maori wooden comb in early stages of manufacture.
- Major M. E. Johnson: Mineral specimens from Stella Rock, Three Kings Group; Maori remains and rock specimens from West Island, Three Kings Group.
- Miss S. M. Johnston: Glass punch bowl, netsuke, ear pendants and other articles.
- The late Mr. Hallyburton Johnstone: Silver and silver-plated ornaments.
- Mr. Humphrey Kemp: Northern Nigerian bows and arrows, and sword with leather scabbard.

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- Mr. T. G. Knox: Large Fijian stone bowl.
 Dr. S. Koperberg: Javanese bamboo vessel.
 Mrs. G. Laing: Staffordshire pottery figures.
 Messrs. H. G. Lambert and J. P. Davy: Subfossil bird bones from Pirongia.
 Mr. H. G. Lambert: Greywacke exhibiting honeycomb weathering, Ngunguru.
 Mr. G. Leaity: Stone adzes from Bay of Islands.
 Mrs. T. W. Leys: Chinese pottery plates and pack of cards used at court of George III.
 Mr. R. A. Low: Collection of spears.
 Mrs. Marjorie E. Mack: Silver half-testoon, Queen Elizabeth, 1567.
 Mrs. D. Maher: Dress uniform, 90th Regiment; full-dress tunic of N.Z. Volunteers.
 Mr. A. P. Mason: Six National Geographic Society wall maps; mesozoic fossils from Kawhia and Port Waikato, rocks from Westland and lava from Vesuvius.
 Mr. H. E. Maude: Clam shell gouge from Gilbert Islands.
 Mr. H. A. Mayhill: Stone adzes from Tahiti and New Zealand.
 Mr. A. D. Mead: Fossiliferous breccia from Huia.
 Dr. P. Mehra: Fifty species Indian plants.
 The late Mrs. L. B. Mellish: Pencil drawings by Sir John Teniel, and box of pearl counters.
 Mr. T. W. Mellor: Collection of plants from Nelson.
 Mr. James Millar: Stone adzes from Kaitara, near Whangarei.
 Mr. G. L. Miller: Timber samples of *Coprosma crassifolia*.
 Mr. G. M. Mitchell: Stone mauri from Taramakau River.
 Mrs. F. E. McCurdy: Whalebone patu and greenstone pendant.
 Mr. R. Macdonald: "Norite" and dolerite from Ahipara, North Auckland.
 N.Z. Geological Survey: Seventeen holotypes of lower Pliocene mollusca from Otahuhu Brewery Well.
 Mr. O. E. Nielsen: Fibre-plaited basket.
 Mrs. Oliver: Eskimo collar from Hudson Bay, Canada.
 Mr. C. E. Peaks: Carving knife and fork made by French prisoners taken at Waterloo.
 Mr. R. Phillips: Hedge sparrow from Ngatea.
 Miss I. H. Pirie: Mesozoic fossils from Kawhia.
 Mr. A. W. B. Powell: Perforated stone sinker from Taipa.
 Mr. J. W. Craig: Culture pearl exhibit from home of Dr. Mikimoto, Japan.
 Mrs. Muriel Richardson: Chinese embroidered panel.
 Mrs. Rose: Stone toki, Otorohanga.
 Mr. W. J. Rutherford: Maori wooden bowl.
 Mrs. E. M. Rutherford and Mrs. Powell: Three pieces of early (7th to 12th Century) Persian faience, two bowls and a plaque.
 Mr. J. Scott: Mongoose and cobra from Madras.

- Mr. E. J. Searle: Fossil trilobites from Cambrian beds, Cobb Valley, Nelson.
 Mrs. S. J. Sheaf: Copper jug.
 Mr. J. Shepherd: Japanese sword-stick and two daggers.
 The late Mr. Watney Sibun: Examples of Japanese and of Maori art.
 Mr. Arpad Sigetvary: Dutch bugle from the battlefield of Ambon Island (1942).
 Mr. W. H. Silcock: Daguerreotype and small worked bag over 100 years old.
 Professor C. Skottsberg: Hawaiian plants from the 1938 bog survey.
 Mr. F. Taylor: Kumara weeder from Howick.
 Mr. F. S. Thompson: Moriori skull, Chatham Islands.
 Mr. Joseph Thompson: Horoscope dial used by Chinese fortunetellers.
 Mr. C. T. Trechman: Rocks from Pitcairn Island and Upper Cretaceous fossils from Jamaica.
 Mr. C. Trevarthen: Textile fragments from cave, Lion Rock, Piha; 47 mounted insects from Auckland district.
 Mr. J. S. Triggs: Manchu lady's coat, Indonesian weapons and Moorish lantern.
 Mrs. H. P. Tucker: Kauri gum model furniture.
 Mr. E. G. Turbott: Stone drill point from Mt. Camel.
 Mr. E. Earle Vaile: Dress sword of Captain J. P. Demonlin, surveyor who made first plan of Auckland.
 Edward Earle Vaile Fund: Large collections of Maori and Melanesian ethnographical specimens, and further collections of Pitcairn Island stone implements.
 Miss E. Walker and Mrs. J. R. Edwards: Three cases of mounted birds and marine specimens.
 Dr. Henry D. Watson: North American Indian archaeological specimens.
 Mr. A. H. Watt: Large "reel" pendant from Parengarenga.
 Mr. B. L. Watt: Two skulls and other remains from Taratara, Whangaroa.
 Mr. R. J. Weston: Clam shell adze from Nauru Island.
 Master Douglas Wheeler: Adze from Kingsland.
 Mr. A. E. White: Drawing of Te Kani by General Robley; original seal of Kororareka.
 Mr. H. B. K. White: Stone adze from Mt. Hobson.
 Mr. M. C. Williams: Drum and two elephant spears, from Uganda.
 Miss I. A. Wilton: Silicified wood from Whangarei.
 Mr. E. V. Wright: Fossil bone of reptile from Batley.
 Mr. and Mrs. J. Yock: Massive silver tray.

Members of the Auckland Institute.

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Bray, Miss E.
Brehmer, Kurt.
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Brockett, P. C.
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Brooking, C. T.
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Buckley, M.
Buddle, Basil D.
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Buddle, Major G. A., D.S.O.
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Rush-King, Rev. C. J., V.D.
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Carpenter, J. M.
Caughey, A. L.
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Challis, Rev. R. L., B.A.
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Champtaloup, R. E.
Chapman, Prof. V. J., Ph.D.
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Chatfield, Dr. H. A.
Choat, T. L.
Christmas, A. W.
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Clark, Brampton
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Clark, Miss Jill.
Clark, Miss K. M.
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Clark, R. C., M.A.
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Collins, W. R.
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Combes, R. E.
Cook, V. J.
Cooper, R.
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Cottier, W., D.Sc.
Couch, Leon.
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Coverdale, Dr. H.
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Creagh, C. D. C.
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Cross, P.
Crowther, W. I.
Cumberland, Professor K. B.,
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Cumming, Ian, B.A., M.Ed.

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Dariow, W. B.

Davis, The Hon. Elliot R.,
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du Feu, Miss M.

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Edwards, Miss Joan.

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Johnson, Major M. E.
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F.I.A.N.Z.

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Smith, B. T., M.A.

Smith, F. A.

Smith, G. M.

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Spry, T. J.

Sriraman, M.

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Steele, A.

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